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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/643,613	08/19/2003	Ionel Wechsler	MM-106J	4944
. 7	590 03/28/2005		EXAMINER	
Iandiorio & Teska			REIFSNYDER, DAVID A	
	ear Hill Road am, MA 02451-1018		ART UNIT	PAPER NUMBER
,			1723	
			DATE MAILED: 03/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
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Office Action Summary	10/643,613	WECHSLER ET AL.	
cincerionen cummary	Examiner Devid A Deifervider	Art Unit	
The MAILING DATE of this communication	David A Reifsnyder	h the correspondence address	
Period for Reply	mappears on the bover enect with	r the correspondence address	
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days of the period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a region. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT at statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	.
Status			
1) Responsive to communication(s) filed on	16 December 2004.		
2a)⊠ This action is FINAL . 2b)□	This action is non-final.		
3) Since this application is in condition for a	llowance except for formal matte	rs, prosecution as to the merits is	1
closed in accordance with the practice ur	nder Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)	thdrawn from consideration. e rejected.		
9)☐ The specification is objected to by the Exa	aminer.		
10)⊠ The drawing(s) filed on <u>14 December 200</u>	$\underline{3}$ is/are: a) $\boxed{2}$ accepted or b) $\boxed{2}$	objected to by the Examiner.	
Applicant may not request that any objection t	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
Replacement drawing sheet(s) including the call. 11) The oath or declaration is objected to by the call.	•	, ,).
	ne Examiner. Note the attached	Office Action of John PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in Ap e priority documents have been r ureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	
Attachment(s)	Λ∏	mmon/(DTO 442)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94) Information Disclosure Statement(s) (PTO-1449 or PTO/5 	8) Paper No(s)	mmary (PTO-413) Mail Date ormal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	·	

DETAILED ACTION

It is noted that the applicants representative submitted a terminal disclaimer to try to overcome the following Double Patenting rejection; however, that terminal disclaimer was improper and was not accepted because the person who signed the terminal disclaimer is not an attorney of record.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Application claims 1, 3-31, 33-40, 43-49, 51-70, 85 and 87-89 rejected under the judicially created doctrine of double patenting over Patent claims 3-22, 24-29, 32-38, 42-54, 56-63, 65, 66, 82 and 84-87 of U. S. Patent No. 6,099,738 to Wechsler et al. since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter. Although the conflicting claims are not identical, they are not patentable distinct from each other because the subject matter being claimed (i.e. a system and method for removing a solute from a fluid) by the instant application involve the same features and steps of the system and method for removing a solute from a fluid, respectively, of U.S. Patent No. 6,099,738.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Concerning application claims 1, 26 and 27; patent claim 24 disclose a method for removing a solute from a fluid comprising the steps of adding coagulant to the fluid to transform a solute from a dissolved state to a non-dissolved particulate state forming colloids and to destabilize the colloidal suspension of the particulates by reducing any charge on the surfaces of the particulates responsible for repulsion between them; collecting the colloids for removal from the fluid including the steps of adding a magnetic seed to the fluid and adding a flocculent to the fluid to form flocs, the magnetic seed inherently accelerating the settling velocity of the flocs, the settling velocity being dependent on the type of magnetic seed and flocculent and at least obviously being greater the 0.5 cm/sec; and separating the flocs by sedimentation after

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flocculation has been complete to remove the flocs leaving clear fluid overflow and magnetically filtering small flocks from the overflow.

Concerning application claims 3-22, 28-31, 33-40, 44-49, 51-65, 85 and 87-89; claims 3-22, 28-31, 33-40, 44-49, 51-65, 85 and 87-89 correspond to patent claims 3-22, 26-29, 32-36, 87, 37, 38, 42-54, 56-63, 82 and 84-86, respectively.

Concerning application claims 23-25; patent claim 25 discloses the method in which the magnetic seed is magnetite (application claim 23). It is considered by the examiner that magnetite inherently possesses a surface which provides for collection of microbiological contaminants from the fluid (application claim 24), wherein the microbiological contaminants include bacteria, viruses and pathogens such as cryptosporidium parvum and giardia lamblia (application claim 25), as admitted by Wechsler et al.'s disclosure as in col. 9, lines 2-6.

Concerning application claims 43, 69 and 70; patent claim 65 discloses a system for removing a solute from a fluid comprising means for adding a coagulant to the fluid to coagulate solute particles to form colloids; means for collecting the colloids from the liquid and the means for collecting including seeding means for adding magnetic seed to magnetically condition said liquid/fluid and flocculation means for producing flocs of the solute particles and separator means responsive to the flocculation means for separating the flocs from the liquid/fluid; and the separator means including sedimentation means in which flocs settle to the bottom of the sedimentation means and clear fluid overflows said sedimentation means, and the separator means further including a magnetic filtration means for filtering small flocs from the fluid overflow;

wherein the magnetic seed inherently accelerates the settling velocity of the flocs, the settling velocity being dependent on the type of magnetic seed and flocculation means; therefore, the settling velocity is capable of being greater the 0.5 cm/sec.

Concerning application claims 66-68, patent claim 66 discloses the magnetic seed being magnetite (application claim 66). It is considered by the examiner that magnetite inherently possesses a surface which provides for collection of microbiological contaminants from the fluid (application claim 67), wherein the microbiological contaminants include bacteria, viruses and pathogens such as cryptosporidium parvum and giardia lamblia (application claim 68), as admitted by Wechsler et al.'s disclosure as in col. 9, lines 2-6.

Application claims 41 and 42 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over patent claim 24 of U.S. Patent No. 6, 099,738 to Wechsler et al. in view of Weiss et al.

Concerning application claims 41 and 42; U.S; patent claim 24 discloses a method for removing a solute from a fluid comprising the steps of adding coagulant to the fluid to transform a solute from a dissolved state to a non-dissolved particulate state forming colloids and to destabilize the colloidal suspension of the particulates by reducing any charge on the surfaces of the particulates responsible for repulsion between them; collecting the colloids for removal from the fluid including the steps of adding a magnetic seed to the fluid and adding a flocculent to the fluid to form flocs; and separating the flocs by sedimentation after flocculation has been complete to

remove the flocs leaving clear fluid overflow and magnetically filtering small flocks from the overflow.

Concerning application claim 41; patent claim 24 fails to disclose the method in which the collecting step further including recirculating the flocs. Weiss et al. teach a method for removing solutes from a fluid similar to that of U.S. Patent No. 6,099,738 to Wechsler et al., wherein the method includes collecting and recirculating the flocs for further treatment, as in fig. 4 and col. 9. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the method of U.S. Patent No. 6, 099,738 to Wechsler et al. by adding the step of collecting and recirculating the flocs for further treatment as taught by Weiss et al. in order to provide an improved method for removing solutes from a fluid. The improved method allowing the regeneration and reuse of adsorbent (i.e. gel particles including magnetite) materials used in forming flocs, thereby lowering costs of replacement of adsorbent materials in the duration of the method. (removal of solutes)

Concerning application claim 42; although U.S. Patent No. 6, 099,738 to Wechsler et al. in view of Weiss et al. do not suggest the floc being recirculated up to 10 times. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention that depending on the amount of flocs initially being removed from the fluid and the state of the absorbents used by the process after each recirculating step, as well as the purity of the fluid required by the user of the method that the floc could be recirculated many times, including up to 10 times, to achieve the

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desired result (i.e. the desired purity of the fluid and the desired amount of flocs, which is to be as less ppm as possible)

Application claim 50 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Patent claim 65 of U.S. Patent No. 6, 099,738 to Wechsler et al. in view of Weiss et al.

Concerning application claim 50; patent claim 65 disclose a system for removing a solute from a fluid comprising means for adding a coagulant to the fluid to coagulate solute particles to form colloids; means for collecting the colloids from the liquid and the means for collecting including seeding means for adding magnetic seed to magnetically condition said liquid/fluid and flocculation means for producing flocs of the solute particles and separator means responsive to the flocculation means for separating the flocs from the liquid/fluid; and the separator means including sedimentation means in which flocs settle to the bottom of the sedimentation means and clear fluid overflows said sedimentation means, and the separator means further including a magnetic filtration means for filtering small flocs from the fluid overflow.

Concerning application claim 50; patent claim 65 fail to disclose the system wherein the separator means includes a recalculation means for recirculating the flocs to the means for collecting. Weiss et al. teach a system for removing solutes from a fluid similar to that of U.S. Patent No. 6, 099,738 to Wechsler et al., wherein the system includes a means for collecting and recirculating the flocs (which is in the form of an underflow of the sedimentation tank), as in fig. 4 and col. 9. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the

invention to modify the system of U.S. Patent No. 6, 099,738 to Wechsler et al. by adding the means for collecting and recirculating the flocs as taught by Weiss et al. in order to provide an improved system for removing solutes from a fluid. The improved system allows for regeneration and reuse of adsorbent (i.e. gel particles including magnetite) materials used in forming flocs, thereby lowering costs of replacement of adsorbent materials. (removal of solutes)

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 4, 7, 11, 15, 19, 23-26, 28-30, 33-38, 41, 43-45, 50-52, 58, 59, 66-70, 85, 87, 89, 90 and 92 are rejected under 35 U.S.C. 102(b) as being anticipated by Weiss et al.

Concerning claims 1, 3, 4, 7, 11, 15, 19, 23-26, 28-30, 33-38, 41, 43-45, 50-52, 58, 59, 66-70, 85, 87, 89 and 90 and 92; Weiss et al. discloses a system and method for removing solutes from a fluid (e.g. waste water) comprising a coagulant and nucleation adding means which adds a nucleation agent and coagulant (e.g. alum, clay, ferric chloride, lime etc.; col. 3, lines 24-40, col. 4, lines 1-13 and col. 6, lines 12-15) to the fluid to transform the solute from a dissolved state to a non-dissolved particulate state forming colloids and to destabilize the colloidal suspension of the particulates by

reducing any charge on the surfaces of the particulates responsible for repulsion between them; a collecting means which collects the colloids for removal from the fluid. the collecting means including a seeding means which adds a magnetic seed (e.g. magnetite) to the fluid and a flocculation means which adds a flocculent (e.g. anion, cationic, polymeric; cols. 5 and 6) to the fluid to form flocs, the magnetic seed inherently accelerating the settling velocity of the flocs; a separator means which separates the flocs by sedimentation after flocculation has been complete and removes the flocs leaving clear fluid overflow, the separator means including a magnetic filter means for magnetically filtering small flocks from the overflow, a floc recirculating means which recirculates the flocs and a magnetic seed recirculating and regenerating means which recirculates and regenerates the magnetic seed, the regeneration of the magnetic seed including washing the seed in an sodium hydroxide solution. Furthermore, a sodium hydroxide solution is mostly water.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 27 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Weiss et al.

Concerning claim 27; Weiss et al. fails to disclose that the settling velocity is greater then 0.5 cm/sec. It is considered that it would have been inherent or at least obvious to one having ordinary skill in the art at the time of the invention that the settling velocity is greater then 0.5 cm/sec.

Claims 5, 6, 8-10, 12-14 and 16-18, 20-22, 31, 39, 40, 42, 46-49, 53-57, 60-65, 88 and 91 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weiss et al.

Concerning claims 5 and 48; Weiss et al. fails to disclosure that the regeneration of the magnetic seed includes demagnetization. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention that to release

the regenerated magnetic seed that you would demagnetize so that the seed doesn't stick together and can be reused.

Concerning claim 6; Weiss et al. fails to disclose the instantly claimed magnetic field in the range of 0.1 Telsa to 1.0 Telsa at 400 Hertz for the demagnetization of the magnetic seed. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to used any magnetic field that works.

Furthermore, the instantly claimed magnetic field in the range of 0.1 Telsa to 1.0 Telsa at 400 Hertz is a wide range and also a range that conventional electromagnets can obtain.

Concerning claims 8 and 49; Weiss et al. while Weiss et al. discloses washing the magnetic seed, Weiss et al. fails to disclose washing the magnetic seed with acid. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have washed the magnetic seed with acid, since acids are often used to wash particles (i.e. seed).

Concerning claims 9, 10, 46 and 47; Weiss et al. fails to disclose drying the magnetic seed in a microwave. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have dried the magnetic seed in a microwave before reusing the magnetic seed.

Concerning claims 12 and 13; Weiss et al. fails to disclosure the instantly claimed secondary magnetic field having a magnetic flux density of 0.1 to 2 Telsa and a magnetic field gradient of 1 to 1000 Telsa/meter. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have

made the secondary magnetic field have any magnetic flux density and gradient that works. Furthermore, the instantly claimed magnetic flux density of 0.1 to 1000 Telsa and magnetic filed gradient of 1 to 1000 Telsa/meter is a wide range and also a range that conventional permanent magnets and/or electromagnets can obtain.

Concerning claim 14; Weiss et al. fails to disclose applying a secondary magnetic filed parallel to the fluid flow. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have applied the secondary magnetic filed parallel to the fluid flow to better remove the magnetic seed from the flocs.

Concerning claims 16-18 and 57; Weiss et al. fails to disclose shearing and agitating said flocs. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have sheared and agitated the flocs to make collecting the flocs easier to do.

Concerning claims 20 and 21; Weiss et al. fails to disclosure the instantly claimed primary magnetic field having a magnetic flux density of 0.1 to 6 Telsa and a magnetic field gradient of 1 to 2000 Telsa/meter. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have made the primary magnetic field have any magnetic flux density and gradient that works.

Furthermore, the instantly claimed magnetic flux density of 0.1 to 6 Telsa and magnetic field gradient of 1 to 2000 Telsa/meter is a wide range, and also a range that conventional permanent magnets and/or electromagnets can obtain.

Concerning claims 22; Weiss et al. fails to disclose applying the primary magnetic filed parallel to the fluid flow. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have applied the primary magnetic filed parallel to the fluid flow to better magnetically filter the small flocs from the overflow.

Concerning claim 31; Weiss et al. fails to disclose that the volume of alum is as a 48.6 % solution and fed in the system at a rate of 10 to 100 ppm. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have used any desired volume of alum and any desired feed rate.

Concerning claim 39; Weiss et al. while Weiss et al. disclose a clay nucleation agent, Weiss et al. fails to disclose that the clay is bentonite It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention that Weiss et al.'s clay be bentonite since bentonite is a common type of clay.

Concerning claims 40 and 88; Weiss et al. fails to disclose that his solute is phosphate It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention that Weiss et al.'s solute by phosphate since phosphate is a common waste water contaminant.

Concerning claim 42; Weiss et al. while Weiss et al. discloses recirculating his floc, Weiss et al. fails to disclose that the floc can be recirculated up to 10 times. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention that depending on the amount of flocs initially being removed from the fluid and the state of the absorbents used by the process after each recirculating

step, as well as the purity of the fluid required by the user of the method that the floc could be recirculated many times, including up to 10 times, to achieve the desired result (i.e. the desired purity of the fluid and the desired amount of flocs, which is to be as less ppm as possible)

Concerning claims 53-56; Weiss et al. fails to disclose what type of magnetic separator his secondary magnetic separator is. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention for Weiss et al. to have used any conventional type of magnetic separator for his secondary magnetic separator. For example, a high gradient magnetic separator, a cyclic high gradient magnetic separator, a wet-drum type magnetic separator or a magnetic separator comprising a filamentary matrix, as claimed in claims 53-56, respectively.

Concerning claims 60-63; Weiss et al. fails to disclose what type of magnetic separator his primary magnetic separator is. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention for Weiss et al. to have used any conventional type of magnetic separator for his primary magnetic separator. For example, a high gradient magnetic separator, a cyclic high gradient magnetic separator, a wet-drum type magnetic separator or a magnetic separator comprising a filamentary matrix, as claimed in claims 60-63, respectively.

Concerning claims 64 and 65; Weiss et al. fails to disclosure the instantly claimed primary magnetic field having a magnetic flux density of at least 0.1 and a magnetic field gradient of at lest 1 Telsa/meter. It is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have made the

primary magnetic field have any magnetic flux density and gradient that works.

Furthermore, the instantly claimed magnetic flux density at least 0.1 Telsa and magnetic field gradient of at lest 1 Telsa/meter is a range that conventional permanent magnets and/or electromagnets can obtain.

Concerning claim 91; while Weiss et al discloses recirculating means; Weiss et al. fails to disclose a recirculating means responsive to said clear fluid overflow from said sedimentation means for recirculating said fluid to said flocculation means. it is considered that it would have been obvious to one having ordinary skill in the art at the time of the invention to have recirculated the clean fluid (i.e. water) overflow to the flocculation means because a lot of flocculants are solids that need to be mixed with water. Therefore, recirculating the clear fluid (i.e. water) overflow water would conserve water by lowering the use of additional clean water in the flocculation means.

Response to Arguments

Applicant's arguments filed December 16, 2004 have been fully considered but they are not persuasive.

Regarding the applicant's argument on page 21 lines 6-10 of his remarks that Weiss et al. eliminates coagulant and does not use a magnetic seed. Weiss et al. teaches that a coagulant is used that coagulant can be reduced or in some cases eliminated; however, Weiss et al. still teaches the use of coagulant (see col. 2, lines 19-24 of Weiss). Disclosed examples and preferred embodiments do not constitute a teaching away from a broader disclosure or nonpreferred embodiments. *In re Susi, 440*

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F.2d 442, 169 USPQ423 (CCPA 1971). Furthermore, Weiss teaches the use of magnetite and magnetite is a magnetic seed. In addition, while the Examiner believes that method claims 1, 3-31, 33-42 and 90 are not patentable; it is noted that apparatus claims 43-70, 85, 87-89, 91 and 92 do not actually need a coagulant and magnetic seed. The instantly claimed "means for adding a coagulant" only has to be capable of adding a coagulant. The instantly claimed "seeding means for adding magnetic seed" only has to be capable of adding magnetic seed. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Furthermore, the material treated is not a structural limitation of the instantly claimed apparatus. Ex parte Masham, 2 USPQ2d 1647 (1987).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Reifsnyder whose telephone number is (571) 272-1145. The examiner can normally be reached on M-F 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda M Walker can be reached on (571) 272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David A Reifsnyder
Primary Examiner

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DAR